

***CADMIU***

***M***

**HAZARD**

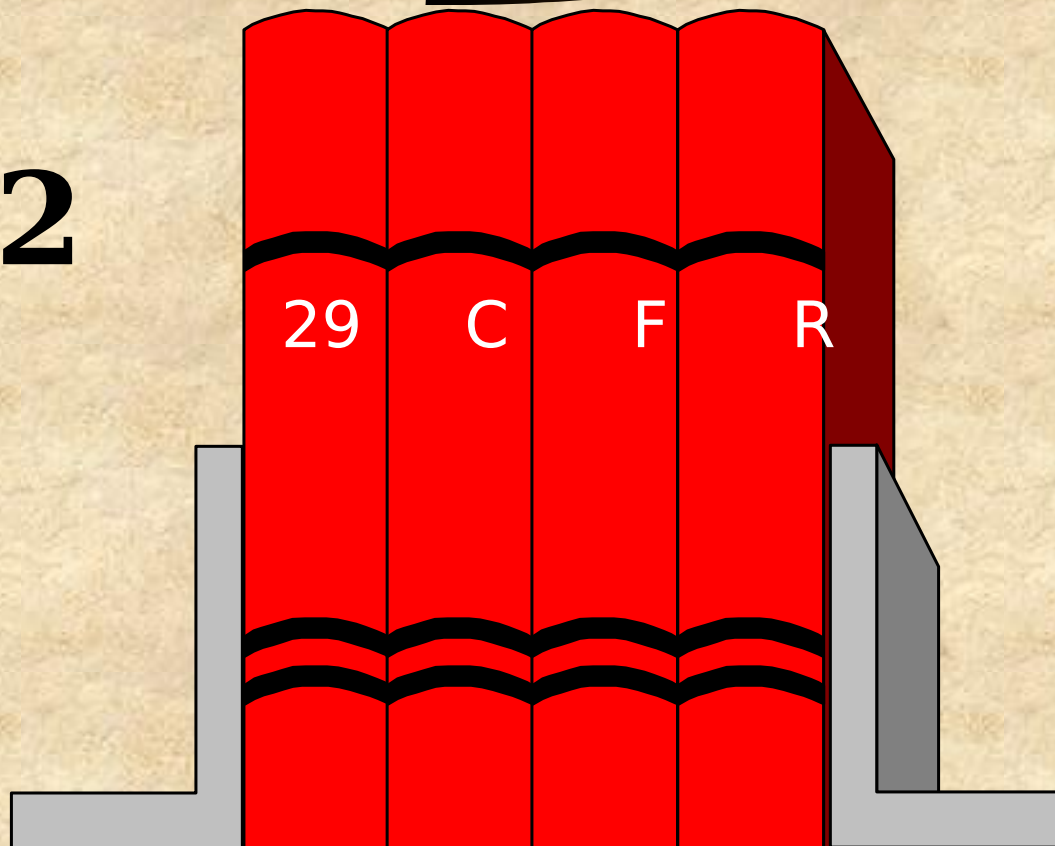
**AWARENESS**

*REFERENCE*

*S*



**29 CFR  
1910.102  
7**



# WHAT IS CADMIUM?

- **CADMIUM IS A SOFT BLUE-WHITE, MALLEABLE, LUSTROUS OR GRAYISH-WHITE POWDER. SOME COMPOUNDS MAY ALSO APPEAR AS A BROWN, YELLOW OR RED POWDER**



# ***OCCUPATIONS AND PROCESSES***



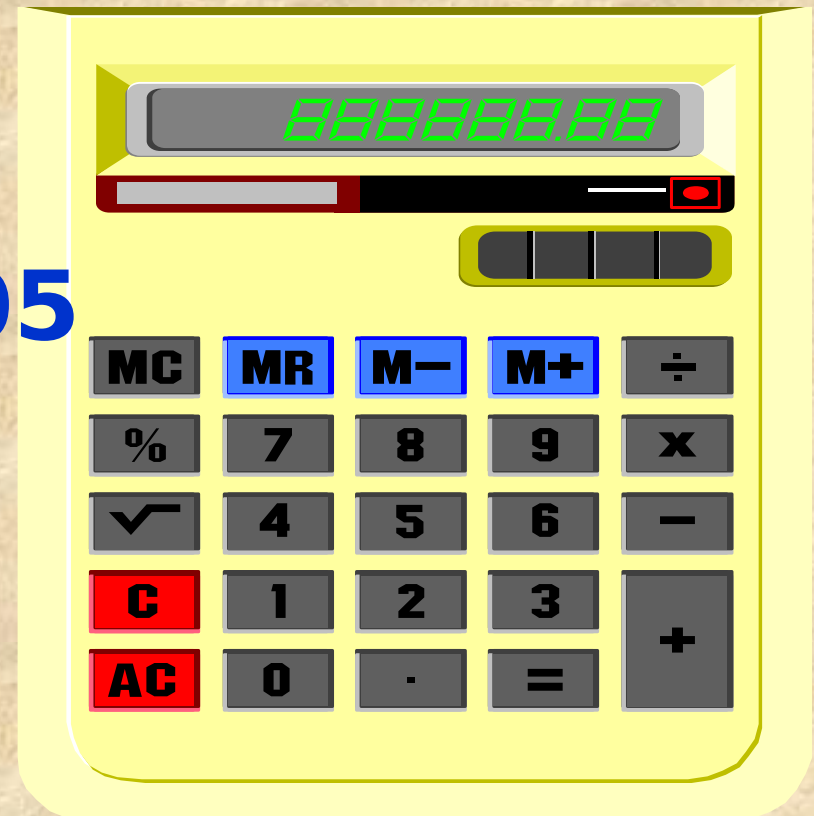
- **CADMIUM MAY BE FOUND:**
  - ABRASIVE BLASTING**
  - PNEUMATIC SANDING**
  - GRINDING VARIOUS SURFACES**
  - CLEANING ABRASIVE GLOVE BOX**
  - SPRAY PAINTING**
  - WELDING AND SOLDERING**



# ***PERMISSIBLE EXPOSURE LIMIT***



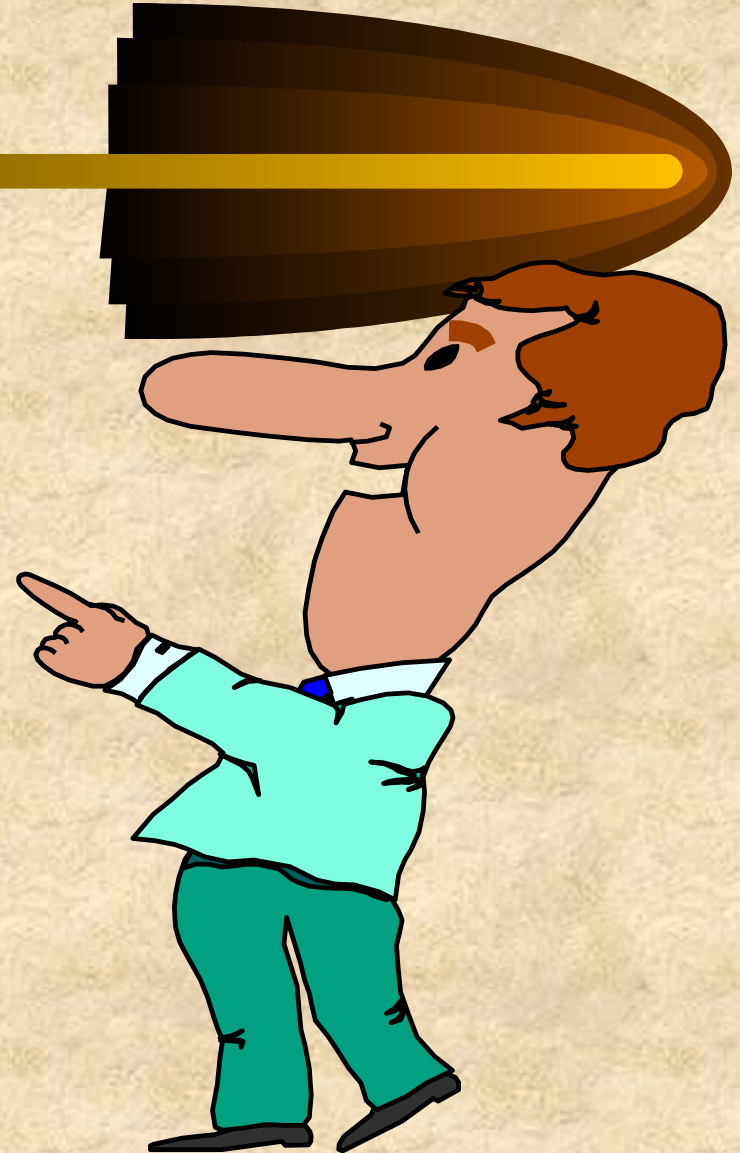
**PEL= 50  
micrograms (0.005  
ug/m<sup>3</sup>)**



# *ACTION LEVEL*

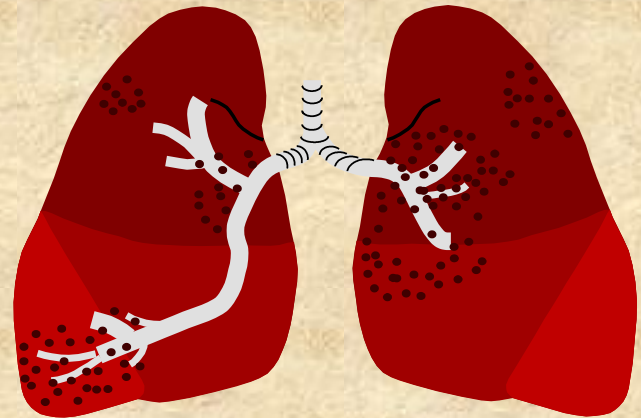
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- **ACTION LEVEL  
= 25  
micrograms  
(0.0025 ug/m<sup>3</sup>)  
AS AN 8 HOUR  
TIME WEIGHTED  
AVERAGE (TWA)**



# ***HEALTH HAZARDS***

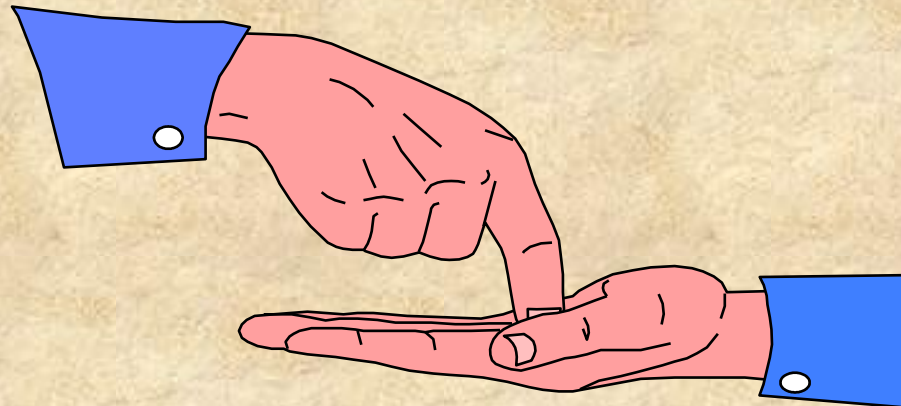
- **EYE AND SKIN IRRITANT**
- **LUNG AND PROSTATE CANCER AND KIDNEY DYSFUNCTION**



# ***WARNING SIGNS***



- **WARNING SIGNS SHALL BE PROVIDED AND POSTED IN REGULATED AREAS**





# ***WARNING SIGNS***

- **WARNING SIGNS SHALL  
BEAR THE FOLLOWING:**

**DANGER      CADMIUM      CANCER  
HAZARD      CAN CAUSE LUNG AND  
KIDNEY DISEASE**

**AUTHORIZED PERSONNEL ONLY  
RESPIRATORS REQUIRED IN THIS  
AREA**



# ***REDUCING EXPOSURE TO CADMIUM***



- **ENGINEERING CONTROLS**
- **ADMINISTRATIVE  
CONTROLS**
- **PERSONAL PROTECTIVE  
EQUIPMENT**

# **PERSONAL PROTECTION**

- **RESPIRATORS**
- **PROTECTIVE CLOTHING**
- **EYE PROTECTION**  
**GOGGLES**  
**FACE SHIELD**



# ***REMOVAL AND STORAGE OF PPE***



- **CONTAMINATED CLOTHING CANNOT BE REMOVED FROM THE WORKSITE EXCEPT FOR AUTHORIZED LAUNDERING**
- **PPE SHALL BE KEPT CLEAN AND SANITIZED**
- **ALL DISPOSABLE PPE SHALL BE DISPOSED OF AS HAZARDOUS WASTE**



# ***WARNING LABELS***

- SHIPPING AND STORAGE CONTAINERS SHALL BEAR THE APPROPRIATE LABELS AND CONTAIN THE FOLLOWING:

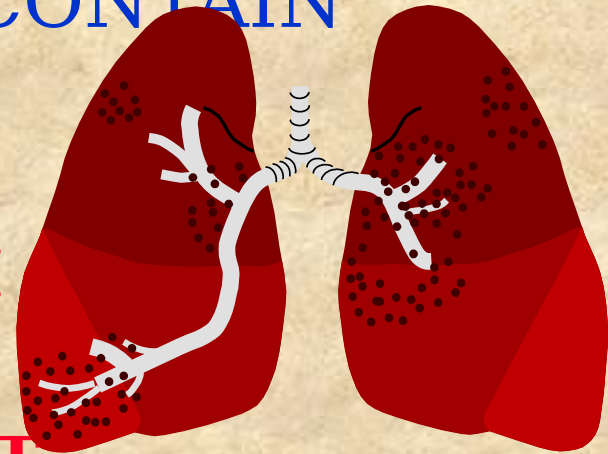
**DANGER**

**CONTAINS CADMIUM**

**CANCER HAZARD**

**AVOID CREATING DUST**

**CAN CAUSE LUNG AND KIDNEY DISEASE**



# *HOUSEKEEPING*



- **ALL SURFACES SHALL REMAIN FREE FROM ACCUMULATIONS**
- **SPIILLS AND SUDDEN RELEASES SHALL BE CLEANED UP AS SOON AS POSSIBLE**
- **SURFACES SHALL BE VACUUMED TO MINIMIZE CADMIUM BECOMING AIRBORNE**

# ***PERSONAL HYGIENE***



- SHOWERS SHALL BE TAKEN AT THE END OF EACH WORK SHIFT WHEN THE EXPOSURE LEVEL IS ABOVE THE PEL
- ENSURE FACE AND HANDS ARE WASHED PRIOR TO EATING, DRINKING, SMOKING, CHEWING TOBACCO, GUM OR APPLYING COSMETICS



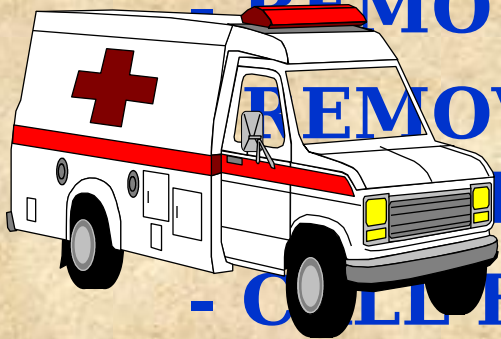
# ***E***MERGENCY ***P***ROCEDURES

- IF PERSONNEL BECOME SICK OR INJURED:

- REMOVE FROM WORKSITE

- REMOVE PPE AND  
ADMINISTER FIRST AID

- CALL FOR MEDICAL  
ASSISTANCE





# *TRAINING*

- **PERSONNEL SHALL RECEIVE TRAINING PRIOR TO OR AT THE TIME OF INITIAL ASSIGNMENT OF DUTIES WITH CADMIUM AND ANNUALLY THERE-AFTER**

